

ABSTRACT

A method and apparatus to control changes in a flying height between a write head and a disk caused by a write current or an overshoot value of a write current are provided. The method comprises: changing a write current or an overshoot value of the write current in relation to a temperature; determining whether the head and the disk surface of a hard disk drive are in contact in relation to changes of the write current or the overshoot value of the write current; and setting the write current and the overshoot value of the write current as a threshold when the head and disk surface are in contact. Accordingly, the magnitude of a write current and the threshold of an overshoot value can be accurately set, and a write current equal to or less than the threshold can be provided when a write operation is performed, thereby providing a reliable write operation.